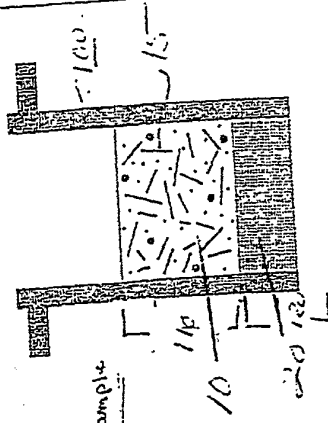


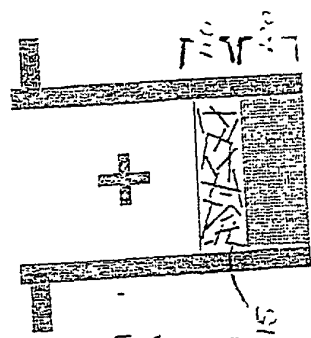
Step 1

- Load DNA analyte sample into microtiter wells



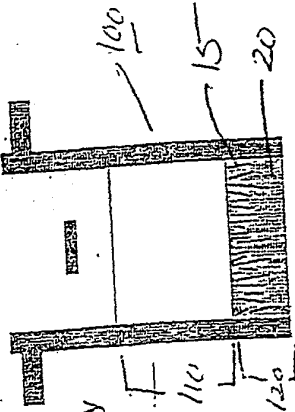
Step 3

- Replace buffer
- Reduce sample volume in well if concentration of DNA analyte is also desired
- Apply current to denature hybrid and release DNA analyte from capture oligo
- Apply reversed electric field to electrophoretically elute DNA analyte into the sample volume in the well



Step 2

- Apply electric field to electrophorese all negatively charged molecules
- The DNA analyte will be captured



Step 4

- Microtiter plate bearing purified and (optionally) concentrated DNA analyte samples ready for further analysis

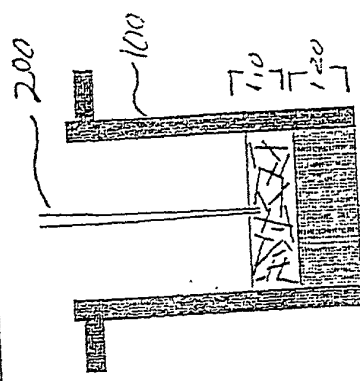


Fig. 1

Sample Prep for Sequencing

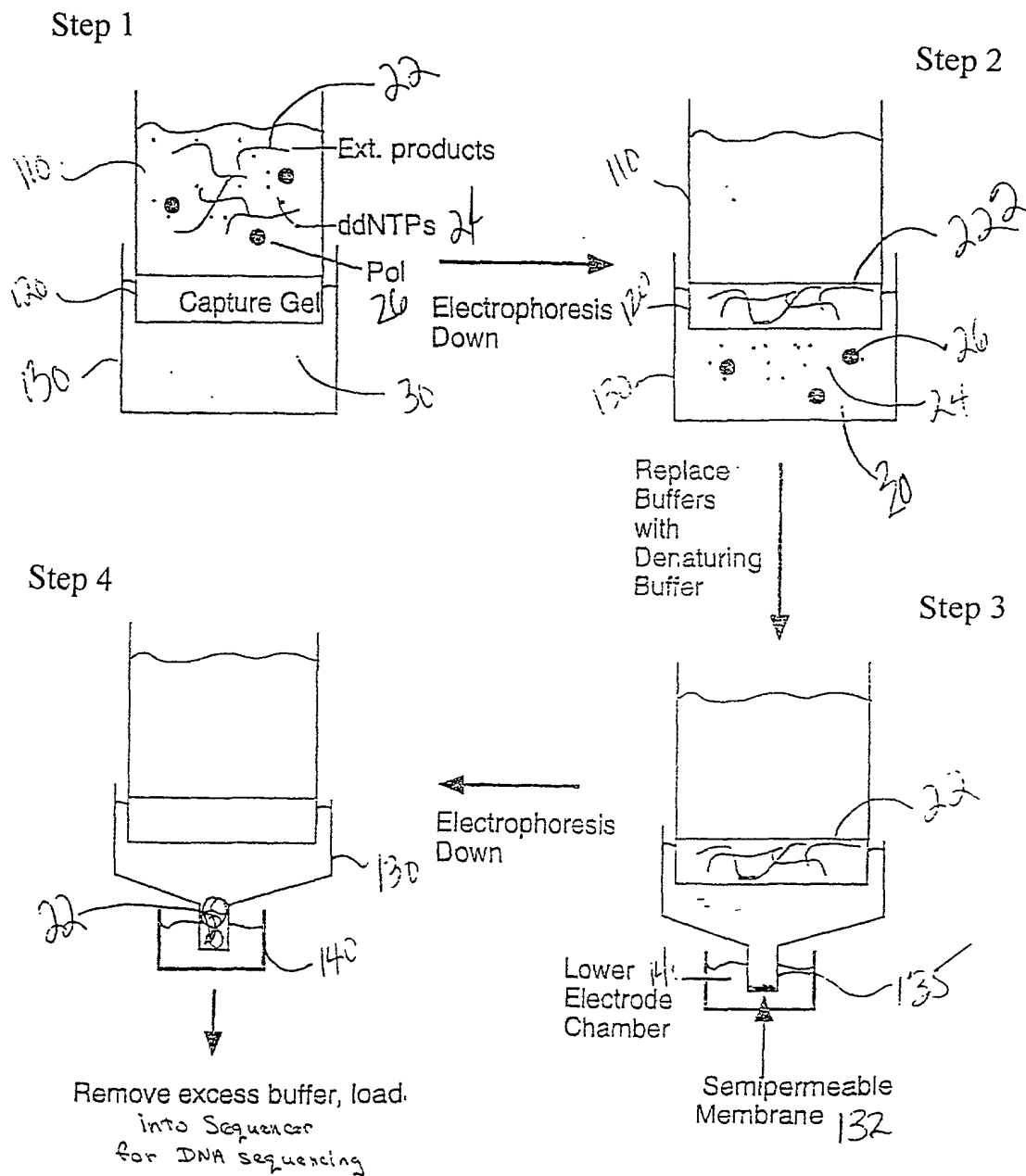


Fig. 2

Multiplexing: Use of Hybrigel to Purify Products of Multiple Reactions

Capture Probes and Uses Therefor
Inventor(s): Weir et al.
Serial No.: Not yet assigned
Atty Docket No.: EXT-070C1
Atty/Agent: Patrick R.H. Waller
Express Mail Mailing Label No. EV 012823698 US

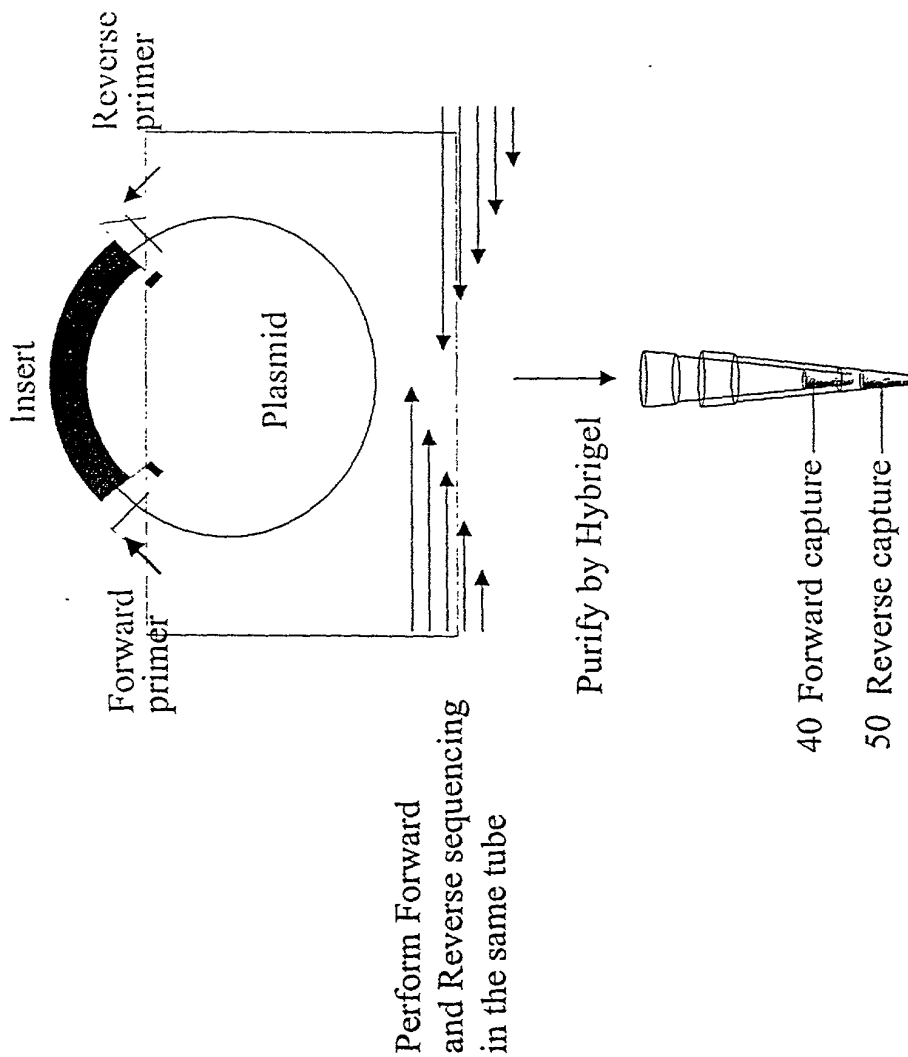


Fig. 3A

For Hybrigel-pure
 + Rev Reverse

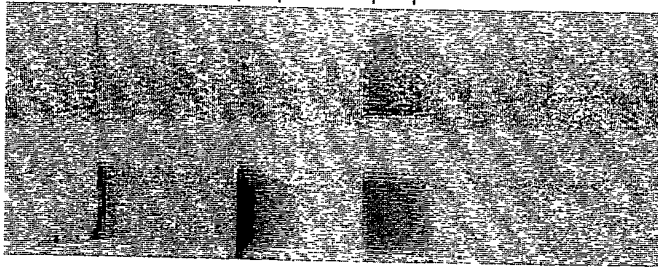


Fig. 3B

Reverse Sequence

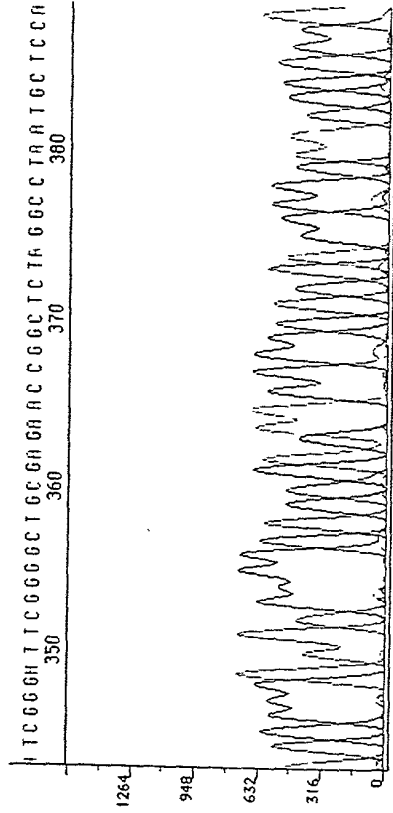


Fig. 3D

Fig. 3C

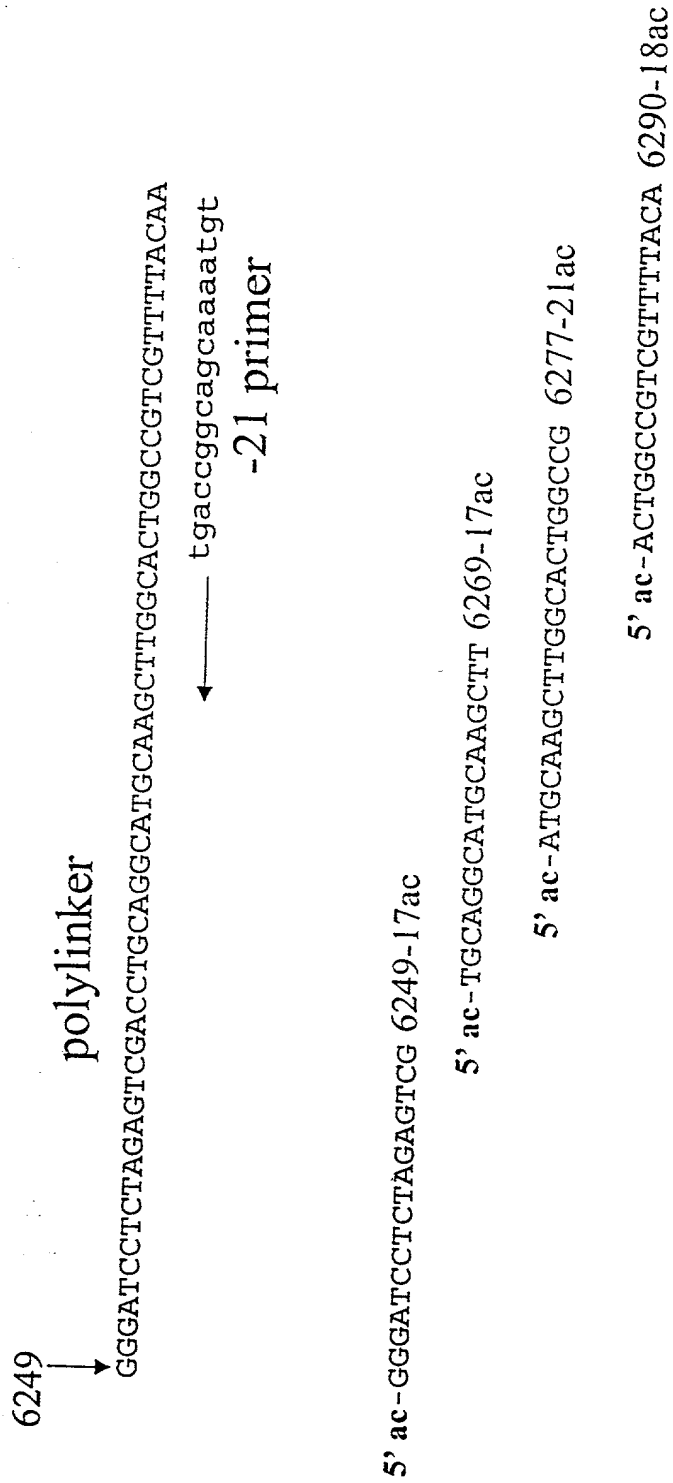


Fig. 3E

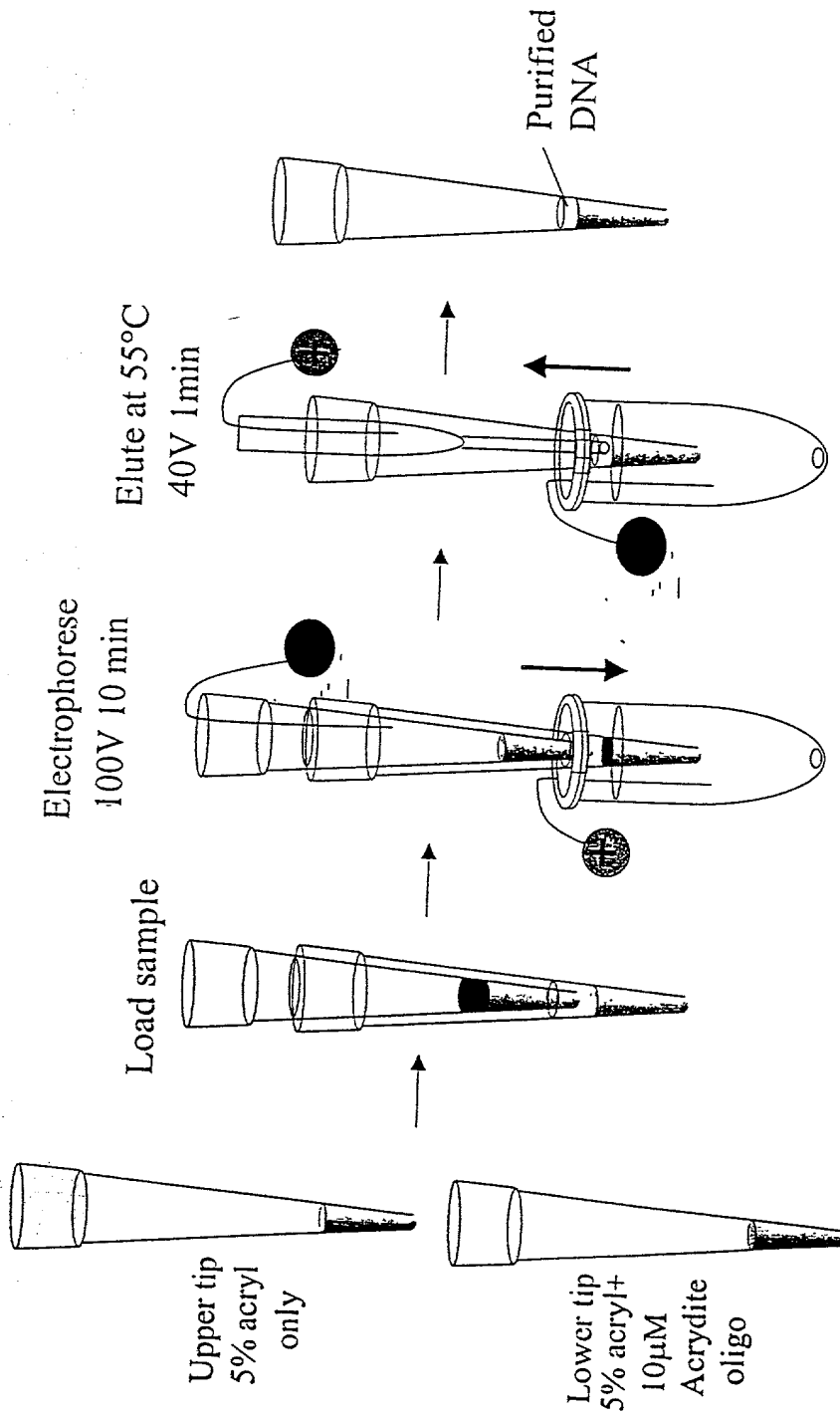
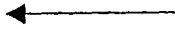


Fig. 4A



Captured
Sequence

Fig. 4B

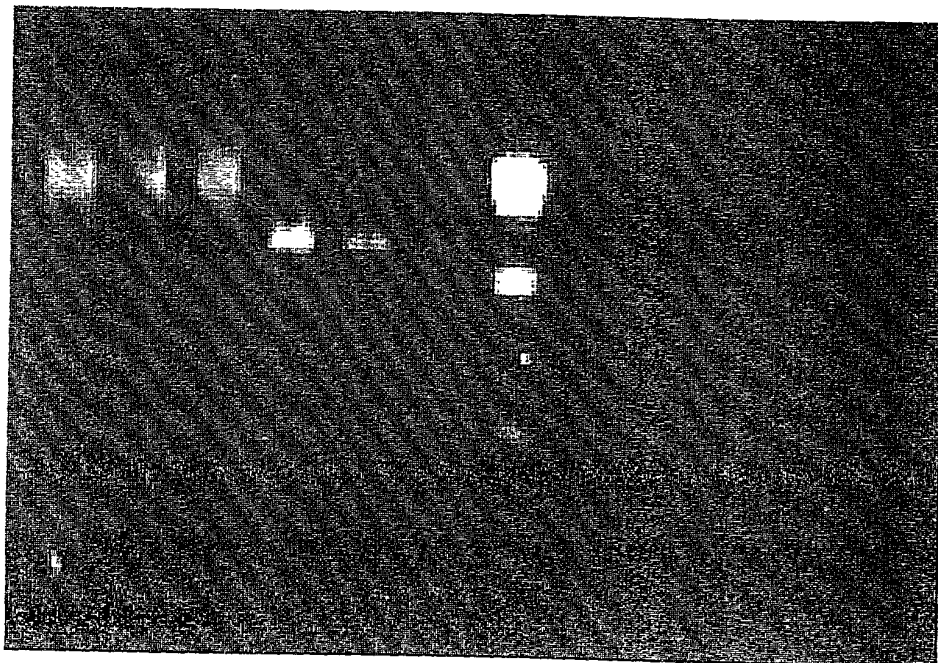


Fig. 5

53.4

43.0

33.7

24.7

Capture layer [6249-ac (10µM)

Increasing temperature

Fig. 6

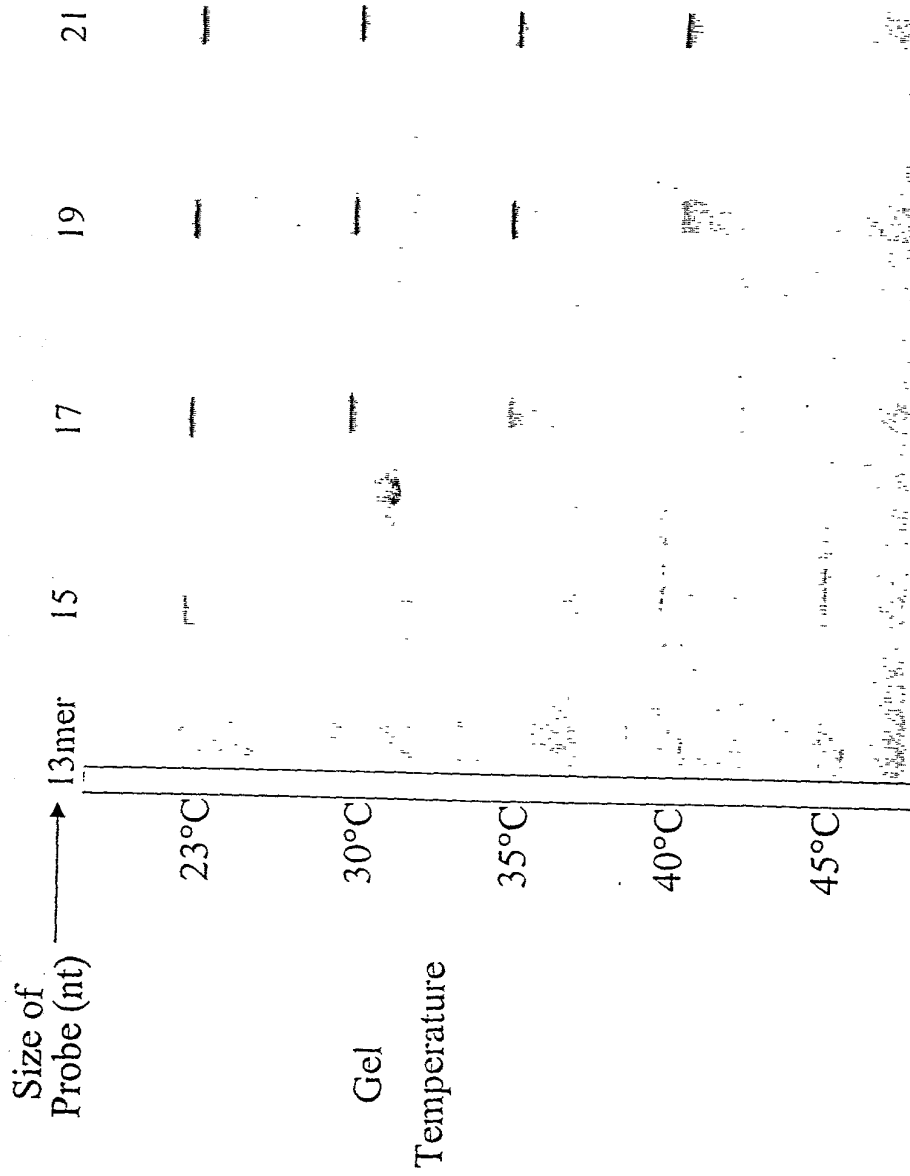


Fig. 7